

DERWENT-ACC-NO: 1984-237785

DERWENT-WEEK: 198439

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TITLE: Quantitative characterisation of polymerisation course -  
by experimentally ultrasonic velocity during  
polymerisation in function of concn. and temp. gradient

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PATENT-FAMILY:

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DD <u>210125</u> A	May 30, 1984	N/A	016	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DD 210125A	N/A	1982DD-0240810	June 17, 1982
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ABSTRACTED-PUB-NO: DD 210125A

BASIC-ABSTRACT:

Quantitative values are obtd. instantly w.r.t. monomer conversion, monomer concn., polymer concn., reaction velocity and stabiliser incorporation, from the experimentally determined ultrasonic velocity  $c$  during polymerisation, by equation:  $c = c_{DM}/JM + \sigma k(\Delta c/\Delta k) c_{DM}/DL$  = ultrasonic velocity of the dispersant or solvent,  $k$  = concn. of the reactants,  $\Delta c/\Delta k$  = ultrasonic velocity-concn. coefft. of the reactants.

USE/ADVANTAGE - The measuring signal is digital and the process can be used for controlling and improving polymerisation. The process can be applied wherever it is possible to determine the effects of the partial components on the total acoustic behaviour.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: QUANTITATIVE CHARACTERISTIC POLYMERISE COURSE  
EXPERIMENT

ULTRASONIC VELOCITY POLYMERISE FUNCTION CONCENTRATE  
TEMPERATURE  
GRADIENT

DERWENT-CLASS: A18 S03

CPI-CODES: A09-C; A10-B03; A10-B04;

EPI-CODES: S03-E08X; S03-E14D7;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0270U; 1081U ; 1737U ; 5153U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0007 0008 0037 0206 0046 0230 0787 2028 2029 2066 2076 2082 2083  
2093 2276 2279 2318 2411

Multipunch Codes: 014 030 031 04& 06- 066 067 075 10& 15& 264 266 267 316 318  
324 327 347 355 357 425 546 688 690 691

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